## HVAC NOTES:

- THE ENGINEER CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, ALL WORK DEPICTED IS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. INSTALLATION SHALL BE IN ACCORDANCE WITH
- STANDARDS AS SETFORTH THEREIN.

  THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL EQUIPMENT
  DESIGN REQUIREMENTS (I.E. VOLTAGE, WATER, DRAINS,GAS CONNECTIONS, ETC.)
  WHEN REQUIRED FOR THE CORRECT/APPROVED OPERATION, THE EQUIPMENT
  SHALL BE FURNISHED WITH ALL NECESSARY ACCESSORIES WHETHER CONSIDERED
  OPTIONAL OR STANDARD BY THE MANUFACTURER. EQUIPMENT SHALL NOT
  BE ORDERED BASE ON MANUFACTURERS' MODEL NUMBERS.
- 3. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND WITH MANUFACTURER'S WARRANTY.
- 4. AIR CONDITIONING DUCTWORK CONCEALED ABOVE CEILINGS SHALL BE DF 1-1/2" THICK CLASS 1, U.L. 181 LISTED FIBERGLASS DUCT BOARD.
- FLEXIBLE DUCTWORK MAY BE USED FOR BRANCHES TO DIFFUSERS AS INDICATED ON DRAWINGS. FLEXIBLE DUCTS SHALL BE U.L.181 LISTED, WITH SPIRAL STEEL INTERNAL REINFORCING,1-1/2" FIBERGLASS INSULATION AND POLYETHYLENE JACKET.FABRICATED IN ACCORDANCE WITH S.M.A.C.N.A. STANDARDS.
- 6. PROVIDE SPIN COLLARS WITH VOLUME DAMPERS AT ALL FLEXIBLE DUCT TAPS TO RIGID DUCTS. DAMPERS TO HAVE LOCKING QUADRANTS WITH HAND LEVERS
- 7. PROVIDE DOUBLE THICKNESS TURNING VANES AT ELBOWS AND EXTRACTOR DAMPERS AT ALL DUCT BRANCHES AND TAKE-OFFS.
- 8. ALL OUTSIDE AIR AND EXHAUST DUCTWORK SHALL BE OF GALVANIZED SHEET METAL FABRICATED IN ACCORDANCE WITH S.M.A.C.N.A. STANDARD FOR LOW VELOCITY DUCT MANUAL.
- 9. ROOF EQUIPMENT SHALL BE INSTALLED WITH PREFABRICATED ROOF CURBS AND ANCHORED TO WITHSTAND HURRICANE WIND FORCES.
- 10. PROVIDE CONCRETE PADS FOR CONDENSING UNITS 6" THICK MIN. ELEVATION TO MEET FLOOD CRITERIA. ANCHOR UNITS TO WITHSTAND FBC HURRICANE
- 11. ALL HVAC SYSTEMS SHALL BE BALANCED TO DELIVER AIR QUANTITIES INDICATED ON DRAWINGS. ACCEPTABLE TOLERANCE OF PLUS OR MINUS 10%.
- 12. CONDENSATE DRAIN PIPING SHALL BE SCHEDULE 40 PVC DRAINAGE PIPE OF 1-1/4" (2" BELOW GROUND). INSULATE WITH APPROVED RETARDANT FOAM INSULATION APPROVED FOR PLENUM USE. AT CONTRACTOR'S OPTION USE DWV COPPER PIPE WITH INSULATION.

HVAC DESIGN REQUIRES:	YES	NO
DUCT SMOKE DETECTOR		
FIRE DAMPER(S)		
SMOKE DAMPER(S)	ada ili di sat	
FIRE RATED ENCLOSURE	es, a les per la	
FIRE RATED ROOF/FLOOR CEILING ASSEMBLY		V_
FIRE STOPPING		
SMOKE CONTROL	A CONTRACTOR	

	And the second second						
	AIR DISTRIBUTION SCHEDULE						
	SYMBOL	"CD"	"RG"				
	DESCRIPTION	CLG DIFFUSER	GRILLE	tu i tu ku ku k			
	APPLICATION	SUPPLY	RETURN				
	DESIGN MFG.	TITUS	TITUS				
۱	MODEL NO.	TDC	350 FL				
	ACCESORIES	O.B.D.					
	NOTES						

HWZ	HVAC LEGEND				
SYMBOL	DESCRIPTION				
? X ?	DUCT (SIZE IS CLEAR INSIDE DIMENSION)				
	SQUARE ELBOW WITH TURNING VANES				
V.D.	AIR EXTRACTOR W/ VOLUME DAMPER (V.D.)				
	DUCT TRANSITION				
-V- <b>3</b> -72	return air Grille				
	CEILING DIFFUSER				
·2000	FLEXIBLE DUCT WORK				
<b>O</b> ,	PROGRAMMABLE THERMOSTAT				
	WALL CAP				
uilding Department	EXHAUST FAN				

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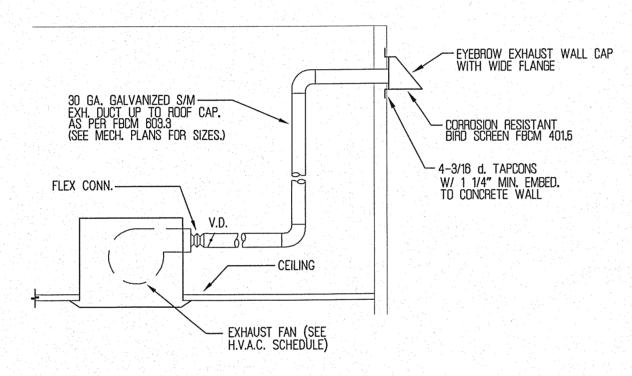
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<u>Examiner Date Time Stamp Disp. Trade Stamp Name</u>

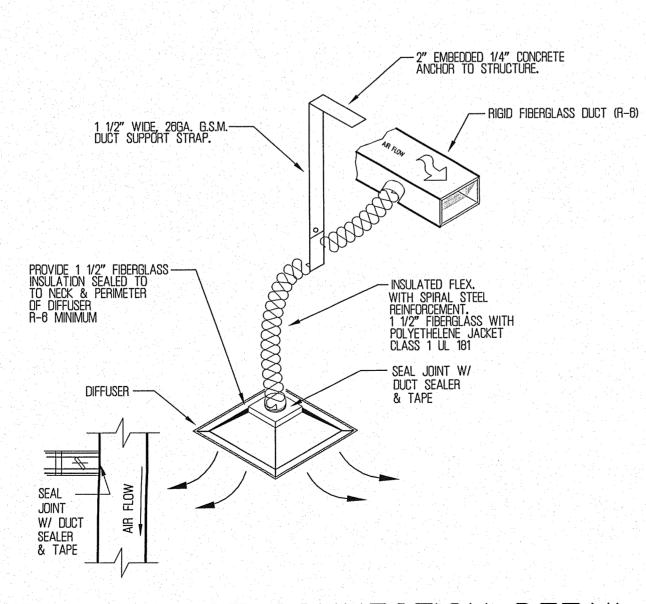
John Ariton 11/14/2011 9:25:54 AM A MECH Approved

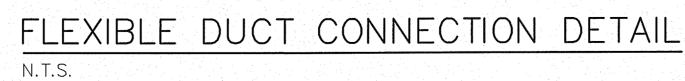
			**************************************
VENTILATION FAN SCHEDULE			
MARK NO.	EF-1		
FAN TYPE	CENTRIFUGAL		
DRIVE TYPE	DIRECT		
AIR FLOW (CFM)	50		
STATIC PRESSURE(IN.W.G.)	0.260		
FAN SPEED (RPM)	150D		
MOTOR H.P.	40 W		
ELECTRIC SERVICE	120/1/60		
DESIGN MFG.	GREENHECK		
MODEL ND.	SP-8		
ACCESSORIES	1		

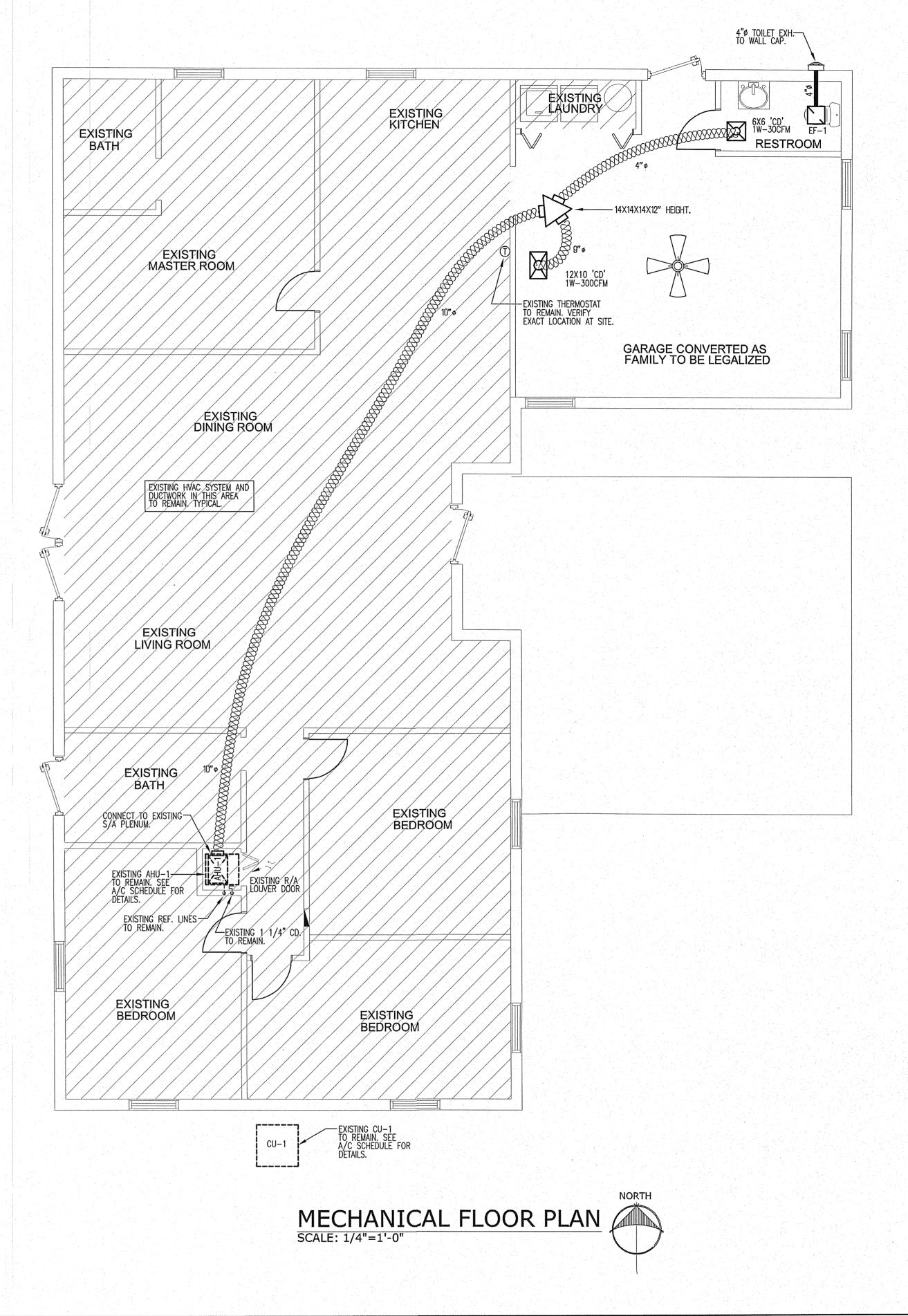
① PROVIDE BACKDRAFT DAMPER, SPEED CONTROL SWITCH.



BATH EXHAUST FAN DETAIL
SCALE: N.T.S. (THRU WALL)







EXISTING SPLIT AC SYSTEM SCHEDULE

OND. MOD# AHU. MOD# RLA FAN MOTOR RLA FLA AMPACITY FUSE OR HACR COND. DIMENSION SUCTION LIQUID LINES LINES WT/LBS FAN HP H X W X D WT/LBS HEAT(KW) SERVICE

OCTIONO ARUF486016AB 25.3 1.2 33 40 34X30X30 1 1/8" 3/8" 242 3/4 54X22X24 192 10 240-1-60

CT ENGINEERING

CARLOS TILLAN
11214 SW 156 PL
MIAMI, FLORIDA . 3296
TEL 305-527-9041

E CAMPBELL

DATE: NOV 07-2011

REVISIONS:

SCALE: AS SHOWN

DRAWN BY: C.T.

CHECKED BY: C.T.

SHEET TITLE:

CARLOS TILLAN PROFESSIONAL . ENGINEER PE. #68869

MECHANICAL FLOOR
PLAN NOTES AND
DETAILS

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